

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	652	604/43.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/19 13:39
L2	34	604/43.ccls. and (plasma or gas) and (ultrasonic or sonotrode)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/19 13:40
L3	31	604/43.ccls. and (plasma)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/19 13:45
L4	99	604/22.ccls. and (plasma)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/19 13:46
L5	2	"4931047".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 13:56
L6	11	"6535768"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 14:18
L7	2	"6535768".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 14:18
L8	2	"6402748".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 15:23

L9	50	("3648001"   "3801766"   "3911241"   "4492832"   "4545375"   "4562838"   "4593691"   "4827911"   "4827927"   "4931047"   "5026370"   "5085657"   "5088997"   "5154709"   "5195959"   "5217457"   "5234428"   "5244462"   "5261918"   "5313935"   "5324270"   "5376077"   "5400267"   "5431650"   "5431667"   "5456284"   "5514098"   "5519197"   "5545142"   "5634908"   "5634911"   "5634937"   "5662647"   "5667489"   "5685858"   "5749871"   "5836944"   "6099525"). PN. OR ("6402748"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/19 15:25
S1	103	("20060052774" "4562838" "4856514" "5192267" "5460602" "5693051" "5938661" "5217458" "5190541" "6162220" "4850352" "5269780" "5413575" "5449356" "5833689" "5868744" "5876401" "5925045" "5972416" "6010516" "6050996" "6113596" "6187003" "6228083" "4074718" "4076028" "4085756" "4334539" "4500832" "4520818" "4887593" "4903696" "4931047" "4938761" "5007908" "5009656" "5055100" "5190517" "5192280" "5197962" "5250047" "5258006" "5267997" "5273524" "5342359" "5352222" "5383876" "5401272" "5403312" "5441498" ).pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 09:49
S2	17	("6616660" "6475217" "3589363" "4063557" "4931047" "4425115" "4516398").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 11:17

S3	289	("3075288"   "3076904"   "3213537"   "3352303"   "3358677"   "3380446"). PN. OR ("3589363"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 11:18
S4	18	("3589363"   "4223676"   "4246902"   "4493694"   "4515583"   "4589415"   "4609368"   "4827911"   "4869715"   "4922902"   "4989583"   "5154694"   "5359996"   "5591127"   "5700240"   "5766146"   "6027515"   "6179808"). PN. OR ("7297137"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 11:19
S5	25	("4931047" or "6402748" or "5376089").pn. or us-2001049524-\$.did. or us-2001027601-\$.did. or US-6723110-\$.DID. OR US-D478383-\$.DID. OR US-6368299-\$.DID. OR US-6238386-\$.DID. OR US-6214018-\$.DID. OR US-6214017-\$.DID. OR US-6083191-\$.DID. OR US-6013048-\$.DID. OR US-5779713-\$.DID. OR US-D393067-\$.DID. OR US-5669907-\$.DID. OR US-5669904-\$.DID. OR US-5421829-\$.DID. OR US-5382247-\$.DID. OR US-5190517-\$.DID. OR US-5088997-\$.DID. OR US-5015227-\$.DID. or US-4978333-\$.DID. OR US-4931047-\$.DID. OR US-4913698-\$.DID. OR US-4827911-\$.DID. OR US-4074718-\$.DID. OR US-4060088-\$.DID.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 13:32
S6	0	06/45.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 13:43
S7	1101	606/45.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 13:43
S8	128	606/45.ccls. and plasma	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 13:43

S9	128	606/45.ccls. and plasma	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/17 13:43
S10	1	"3693613".pn.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:05
S11	152	("2855945"   "3526219"   "3528410"   "3532104"   "3581760"   "3589363"). PN. OR ("3693613"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:05
S12	25	broadwin-alan.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:11
S13	774	"606".ccls. and (ion\$5)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:52
S14	664	"606".ccls. and (ionizing or ionization or plasma)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:52
S15	134	"606".ccls. and (ionizing or ionization or plasma) and ultrasonic	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:53
S16	2729	604/22-26.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:54
S17	0	604/22-26.ccls. nad ultrasonic and (ionizing or ionizable or ionization)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:55
S18	31	604/22-26.ccls. and ultrasonic and (ionizing or ionizable or ionization)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:55
S19	302	604/22-26.ccls. and ultrasonic and (gas)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 15:57
S20	797	604/35.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 16:26
S21	275	604/35.ccls. and gas	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 16:26
S22	50	("20060052774" "4562838" "4856514" "5192267" "5460602" "5693051" "5938661" "5217458" "5190541" "6162220" "4850352" "5269780" "5413575" "5449356" "5833689" "5868744" "5876401" "5925045" "5972416" "6010516" "6050996" "6113596" "6187003" "6228083" "4074718" "4076028" "4085756" "4334539" "4500832"	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/17 16:47

		"4520818" "4887593" "4903696" "4931047" "4938761" "5007908" "5009656" "5055100" "5190517" "5192280" "5197962" "5250047" "5258006" "5267997" "5273524" "5342359" "5352222" "5383876" "5401272" "5403312" "5441498" ).pn.				
S23	0	("2006/0052774").URPN.	USPAT	ADJ	ON	2008/06/17 16:48
S24	103	("20060052774" "4562838" "4856514" "5192267" "5460602" "5693051" "5938661" "5217458" "5190541" "6162220" "4850352" "5269780" "5413575" "5449356" "5833689" "5868744" "5876401" "5925045" "5972416" "6010516" "6050996" "6113596" "6187003" "6228083" "4074718" "4076028" "4085756" "4334539" "4500832" "4520818" "4887593" "4903696" "4931047" "4938761" "5007908" "5009656" "5055100" "5190517" "5192280" "5197962" "5250047" "5258006" "5267997" "5273524" "5342359" "5352222" "5383876" "5401272" "5403312" "5441498" ).pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 16:50
S25	49	garrison-david-\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 16:52
S26	71	sartor-joe-\$.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 16:53

S27	43	hogan-michael.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 16:58
S28	2	"5330469".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/17 16:59
S29	35	("2510205"   "2618267"   "2708933"   "2828747"   "3578939"   "3834392"   "4040426"   "4060088"   "4072152"   "4100390"   "4196734"   "4209018"   "4562838"   "4573466"   "4640279"   "4781175"   "4901720").PN. OR ("5330469").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 16:59
S30	2	"6256859".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/17 17:26
S31	30	("4406284"   "4425115"   "4526571"   "4531934"   "4816018"   "4869715"   "4923441"   "5061238"   "5151084"   "5222937"   "5269297"   "5304115"   "5318570"   "5324297"   "5346469"   "5359996"   "5382228"   "5413556"   "5417672"   "5433702"   "5464389"   "5527273"   "5562609"   "5562610"   "5688235"   "5718676"   "D388170").PN. OR ("6256859").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 17:26
S32	90	("2723386"   "3113225"   "3213537"   "3375583"   "3433226"   "3589363"   "3693613"   "3930173"   "4063557"   "4110908"   "Re25033").PN. OR ("4425115").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 17:30

S33	30	("4406284"   "4425115"   "4526571"   "4531934"   "4816018"   "4869715"   "4923441"   "5061238"   "5151084"   "5222937"   "5269297"   "5304115"   "5318570"   "5324297"   "5346469"   "5359996"   "5382228"   "5413556"   "5417672"   "5433702"   "5464389"   "5527273"   "5562609"   "5562610"   "5688235"   "5718676"   "D388170").PN. OR ("6256859").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 17:33
S34	4142	ultrasonic and inert gas and electrode	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 17:46
S35	41	ultrasonic and inert gas and electrode and ("128" or "604" or "606" or "607").class.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 17:46
S36	138	ultrasonic and inert and electrode and ("128" or "604" or "606" or "607"). class.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 17:47
S37	105	ultrasonic and inert gas and ("128" or "604" or "606" or "607").class.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/17 17:49
S38	2	us-6402748-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/18 10:55
S39	50	("3648001"   "3801766"   "3911241"   "4492832"   "4545375"   "4562838"   "4593691"   "4827911"   "4827927"   "4931047"   "5026370"   "5085657"   "5088997"   "5154709"   "5195959"   "5217457"   "5234428"   "5244462"   "5261918"   "5313935"   "5324270"   "5376077"   "5400267"   "5431650"   "5431667"   "5456284"   "5514098"   "5519197"   "5545142"   "5634908"   "5634911"   "5634937"   "5662647"   "5667489"   "5685858"   "5749871"   "5836944"   "6099525"). PN. OR ("6402748").	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 10:56

		URPN.				
S40	118	("3911241"   "4071028"   "4123673"   "4545375"   "4856514").PN. OR ("5244462").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 12:44
S41	14	("3595239"   "4209018"   "4781175"   "5041110"   "5088997"   "5108389"   "5152762"   "5160334"   "5217457"   "5244462"   "5324283").PN. OR ("6602249").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 12:54
S42	11533	ultrasonic and gas and argon	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 13:04
S43	22389	(ultrasonic) same (gas or noble or argon)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/18 13:05
S44	46	(ultrasonic) same (gas or noble or argon) and "606". class.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/18 13:06
S45	1	"6402748".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:09
S46	1101	606/45.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:10
S47	99	S46 and argon	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:11
S48	35	S46 and noble	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:11
S49	3	S46 and noble and ultrasonic	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:12
S50	3	S46 and noble and (ultrasonic or acoustic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:12
S51	33	S46 and (argon) and (ultrasonic or acoustic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:13
S52	41	S46 and (plasma) and (ultrasonic or acoustic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:15
S53	21	("3434476"   "3838242"   "3903891"   "3938525"   "3991764"   "4225769"   "4781175"   "4855563"   "5587093"   "5680014"   "5720745"   "5843079"   "5888198").PN. OR ("6475215").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 13:18



S54	137	"606".class. and (plasma) and (ultrasonic or acoustic)	US-PGPUB; USPAT; USOCR	OR	ON	2008/06/18 13:28
S55	16	("3434476"   "3838242"   "3903891"   "3938525"   "3991764"   "4225769"   "4781175"   "4855563"   "5587093"   "5626560"   "5680014"   "5720745"   "5843079"   "5888198"   "6475215").PN. OR ("6780184").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 13:29
S56	3	sonotrode and "606".class.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 13:53
S57	74	("2376265"   "2444767"   "2555017"   "2612584"   "2708933"   "2797306"   "2828747"   "2842656"   "3081770"   "3261961"   "3529128"   "3823717"   "3828780"   "4040426"   "4057064"   "4060088"   "4325362"   "4402310"   "4425115"   "4428748"   "4781175"   "4804364"   "4808153"   "4816018"   "4867141"   "4901719"   "4901720"   "4936281"   "5009656"   "5242385"   "5312329"   "5334183").PN. OR ("5626560").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 13:54
S58	45	("4674498"   "4741731"   "4751916"   "4804364"   "4861332"   "4886060"   "4903696"   "4931047"   "4978333"   "5015227"   "5178605"   "5190517").PN. OR ("5312329").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 14:14
S59	0	soring-holger-\$.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:07
S60	0	s\$ring-holger-\$.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:08
S61	0	s\$1ring-holger-\$.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:09
S62	10	s\$1ring-holger.in.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:09

S63	12	("3903891"   "3958883"   "4250373"   "4369919"   "4781175"   "5115168"   "5130003"   "5207675"   "6010499"   "6013075"). PN. OR ("6958063"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:11
S64	0	S63 and ultrasonic	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:12
S65	2	S63 and acoustic	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:12
S66	74	("2376265"   "2444767"   "2555017"   "2612584"   "2708933"   "2797306"   "2828747"   "2842656"   "3081770"   "3261961"   "3529128"   "3823717"   "3828780"   "4040426"   "4057064"   "4060088"   "4325362"   "4402310"   "4425115"   "4428748"   "4781175"   "4804364"   "4808153"   "4816018"   "4867141"   "4901719"   "4901720"   "4936281"   "5009656"   "5242385"   "5312329"   "5334183"). PN. OR ("5626560"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:13
S67	32	("3272204"   "3376869"   "3563228"   "4452245"   "4674498"   "4804364"   "4886060"   "4931047"   "5015227"   "5209776"   "5211625"   "5246156"   "5258000"   "5470010"   "5540683"   "5626560"   "5733337"   "5824015"). PN. OR ("6251110"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/06/18 15:14
S68	1907	604/22.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/19 12:37
S69	497	S68 and (plasma or gas)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/06/19 12:37

S70	497	S68 and (plasma or gas)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 12:37
S71	99	S68 and (plasma)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 12:38
S72	31	("5626560").URPN.	USPAT	ADJ	ON	2008/06/19 12:40
S73	2036	sonotrode	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 13:34
S74	58	sonotrode and plasma	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 13:34
S75	652	604/43.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2008/06/19 13:35

6/ 19/ 2008 5:23:36 PM

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